

Journal of Embryology and Experimental Morphology

EDITORIAL BOARD

M. ABERCROMBIE (London)
E. C. AMOROSO (London)
J. BRACHET (Brussels)
R. W. BRIGGS (Bloomington, Ind.)
A. S. G. CURTIS (Glasgow)
J. D. EBERT (Baltimore)
D. A. EDE (Edinburgh)
HONOR B. FELL (Cambridge)
L. GALLIEN (Paris)
H. GRÜNEBERG (London)
J. B. GURDON (Oxford)
T. GUSTAFSON (Stockholm)
E. HADORN (Zurich)
V. HAMBURGER (St Louis)
J. HOLTFRETER (Rochester, N.Y.)
S. HÖRSTADIUS (Uppsala)
G. V. LOPASHOV (Moscow)

P. B. MEDAWAR (London)
A. MONROY (Palermo)
D. A. T. NEW (Cambridge)
D. R. NEWTH (Glasgow)
P. D. NIEUWKOOP (Utrecht)
J. PASTEELS (Brussels)
J. PAUL (Glasgow)
CHR. P. RAVEN (Utrecht)
A. K. TARKOWSKI (Warsaw)
H. TIEDEMANN (Berlin)
S. TOIVONEN (Helsinki)
C. H. WADDINGTON (Edinburgh)
V. B. WIGGLESWORTH (Cambridge)
ÉT. C. WOLFF (Paris)
L. WOLPERT (London)
T. YAMADA (Oak Ridge)
J. Z. YOUNG (London)

VOLUME 25



PUBLISHED FOR
THE COMPANY OF BIOLOGISTS LIMITED
CAMBRIDGE UNIVERSITY PRESS

LONDON AND NEW YORK

1971

Printed in Great Britain at the University Printing House, Cambridge

Contents of Volume 25

Part 1, February 1971

GRÜNEBERG, HANS. The glandular aspects of the tabby syndrome in the mouse	1
JOHNSON, D. R. <i>and</i> WISE, JEAN M. Cartilage anomaly (<i>can</i>); a new mutant gene in the mouse	21
BUSH, FRANCIS M. <i>and</i> TOWNSEND, J. IVES. Ontogeny of hemoglobin in the house sparrow	33
ŠKREB, N., ŠVAJGER, A. <i>and</i> LEVAK-ŠVAJGER, B. Growth and differentiation of rat egg-cylinders under the kidney capsule	47
VERDONK, N. H., GEILENKIRCHEN, W. L. M. <i>and</i> TIMMERMAN, L. P. M. The localization of morphogenetic factors in uncleaved eggs of <i>Dentalium</i>	57
EDE, D. A., HINCHLIFFE, J. R. <i>and</i> MEES, H. C. Feather morphogenesis and feather pattern in normal and <i>talpid</i> ³ mutant chick embryos	65
ROSENQUIST, GLENN C. The origin and movement of the limb-bud epithelium and mesenchyme in the chick embryo as determined by radioautographic mapping	85
ROSENQUIST, GLENN C. The origin and movements of the hepatogenic cells in the chick embryo as determined by radioautographic mapping	97
DIDIER, ELIANE. Le canal de Wolff induit la formation de l'ostium müllérien: démonstration expérimentale chez l'embryon de Poulet	115
ALESCIO, T. <i>and</i> DANI, A. M. The influence of mesenchyme on the epithelial glycogen and budding activity in mouse embryonic lung developing <i>in vitro</i>	131
KRATOCHWIL, KLAUS. <i>In vitro</i> analysis of the hormonal basis for the sexual dimorphism in the embryonic development of the mouse mammary gland	141

Part 2, April 1971

ROGULSKA, TERESA, OŹDŹEŃSKI, WACŁAW <i>and</i> KOMAR, ALDONA. Behaviour of mouse primordial germ cells in the chick embryo	155
SMITH, M. S. R. <i>and</i> WILSON, I. B. Histochemical observations on early implantation in the mouse	165
HERNANDEZ-VERDUN, D. <i>et</i> LEGRAND, C. Différenciation du trophoblaste au cours du développement <i>in vitro</i> d'embryon de Souris	175
DEUCHAR, E. M. The mechanism of axial rotation in the rat embryo: an experimental study <i>in vitro</i>	189
BERRY, COLIN L. The effects of an antiserum to the contractile proteins of the heart on the developing rat embryo	203
PEDERNERA, ENRIQUE A. Development of the secretory capacity of the chick embryo adrenal glands	213

Contents

JOHNSON, D. R. <i>and</i> HUNT, D. M. Hop-sterile, a mutant gene affecting sperm tail development in the mouse	223
MOHAN, JAG. Influence of the RNA content on oogenesis in the <i>bobbed</i> mutants of <i>Drosophila melanogaster</i>	237
GRÜNEBERG, HANS. Exocrine glands and the Chievitz organ of some mouse mutants	247
IKUSHIMA, N. <i>and</i> MARUYAMA, S. Structure and developmental tendency of the dorsal marginal zone in the early amphibian gastrula	263

Part 3, June 1971

MOLOO, S. K. The degree of determination of the early embryo of <i>Schistocerca gregaria</i> (Forskål) (Orthoptera: Acrididae)	277
BART, A. Morphogenèse trochantérienne provoquée par une régénération fémorale chez le phasme <i>Carausius morosus</i> Br.	301
CHOPRA, D. P. <i>and</i> SIMNETT, J. D. Tissue-specific mitotic inhibition in the kidneys of embryonic grafts and partially nephrectomized host <i>Xenopus laevis</i>	321
HSÜ, C. Y., YÜ, N. W. <i>and</i> LIANG, H. M. Age factor in the induced metamorphosis of thyroidectomized tadpoles	331
PIATT, JEAN. Effect of temperature differentials upon reconstitution of embryonic primordia in <i>Ambystoma</i>	339
SHEPARD, THOMAS H. with the technical assistance of BASS, GLENDA L. Organ-culture studies of achondroplastic rabbit cartilage: evidence for a metabolic defect in glucose utilization	347
SUGIMOTO, MASANOBU <i>and</i> ENDO, HIROYOSHI. Accelerating effect of hydrocortisone on the keratinization of chick embryonic skin growing in a chemically defined medium	365
DAUGÈRAS, NICOLE. Influence de la thiourée sur la charge en glycogène du foie de l'embryon de poulet	377
BILLET, F. S., BOWMAN, PATRICIA <i>and</i> PUGH, DOREEN. The effects of actinomycin D on the early development of quail and chick embryos	385
JETER, JR, JAMES R. <i>and</i> CAMERON, IVAN L. Cell proliferation patterns during cytodifferentiation in embryonic chick tissues: liver, heart and erythrocytes	405
GERIN, YVES. Etude par cytochimie ultrastructurale des corpuscules périnucléaires présents dans les jeunes oocytes de <i>Ilyanassa obsoleta</i> Say (Mollusca gastéropode)	423
CHAPRON, CLAUDE. Etude de l'origine et de la différenciation du pharynx au cours de la régénération chez l'annélide <i>Eisenia foetida</i>	439
BONNER, J. T., SIEJA, T. W. <i>and</i> HALL, E. M. Further evidence for the sorting out of cells in the differentiation of the cellular slime mold <i>Dictyostelium discoideum</i>	457